

Purchasing Receipts



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

PO No	Supplier	Supplier Item No	Line No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Qty	Accounting Job No	Container No	Status	Receive Date	Price/Unit
P0039131	VC	THY001-	1		1	Net 30	M6061T6B0.500X12.000	6061-T6 Bar .500 X 12.00			24	3/2/2018	24		S047293	Stock	3/2/2018	\$ 17.64 / ft
			2			M6061T6B0.500X05.000	MATERIAL: 6061-T6 Bar .500 X 5.00 : T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						24		S047294	Stock	3/2/2018	\$ 7.35 / ft
			3			M6061T6B1.000X1.000	MATERIAL: 6061-T6 Bar 1.00 X 1.00 : T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						24		S047295	Stock	3/2/2018	\$ 2.94 / ft
			4			M6061T6B1.000X02.000	MATERIAL: 6061-T6 Bar 1.00 X 2.00 : T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						24		S047296	Stock	3/2/2018	\$ 5.88 / ft
			8			M6061T6B0.750X06.000	MATERIAL: 6061-T6 Bar .750 X 6.00 : T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S047297	Stock	3/2/2018	\$ 13.23 / ft
			9			M6061T6B1.250X02.000	MATERIAL: 6061-T6 Bar 1.250 X 2.000 : T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S047298	Stock	3/2/2018	\$ 7.35 / ft
			10			M6061T6S.080	6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf						96		S047299	Stock	3/2/2018	\$ 4.23 / sf
			11			M6061T6S.3125	6061-T6 .3125 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf						48		S047300	Stock	3/2/2018	\$ 11.01 / sf
Total:													265					
													312					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

Supplier:

THY001-VC

Thyssenkrupp Materials CA Ltd
O/A VPK Metal- c/o T27540
PO Box 4275, Postal "A"

Toronto
ON
MSW 5V8 Canada
Phone: 905 669 9444
Fax: 905 738 9033

Ship To:

1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No:

PO039131

PO Date:

2/26/18

Due Date:

3/2/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact:

Lavoie, Chantal
Phone: clavoie@dartaero.com

Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: QUOTE NO: 1203013512

Line Item

M6061T6B0.500X12.000

Supplier Part No

6061-T6 Bar .500 X 12.00

Description

6061-T6 Bar .500 X 12.00
: MATERIAL: 6061-
T6/T651/T6510/T6511/T62
ALUMINUM BAR PER
QC-A-225/8 OR AMS-QQ-
A-225/8 OR AMS
4117/4128/415/4116 OR
QC-A-200/8 OR AMS-QQ-
A-200/8 OR AMS 4160
OR ASTM B211 OR
ASTM B221
receive ft

Status

Firmed

Due Date

3/2/18

Order Quantity

24 ft

Received Quantity

0 ft

Balance

24 ft

Unit Price (CAD)

\$17.64/ft

Extended Price

\$423.36

2

M6061T6B0.500X05.000

6061-T6 Bar .500 X 5.00
: MATERIAL: 6061-
T6/T651/T6510/T6511/T62
ALUMINUM BAR PER
QC-A-225/8 OR AMS-QQ-
A-225/8 OR AMS
4117/4128/415/4116 OR
QC-A-200/8 OR AMS-QQ-
A-200/8 OR AMS 4160
OR ASTM B211 OR
ASTM B221
receive ft

Firmed

3/2/18

24 ft

0 ft

24 ft

\$7.35/ft

\$176.40

3

M6061T6B1.000X1.000

6061T6 Bar 1.000 X 1.000
: MATERIAL: 6061-
T6/T651/T6510/T6511/T62
ALUMINUM BAR PER
QC-A-225/8 OR AMS-QQ-
A-225/8 OR AMS
4117/4128/415/4116 OR
QC-A-200/8 OR AMS-QQ-
A-200/8 OR AMS 4160
OR ASTM B211 OR
ASTM B221
receive ft

Firmed

3/2/18

24 ft

0 ft

24 ft

\$2.94/ft

\$70.56

MAR 02 2018

DAS
9-89

24

MAR 02 2018

DAS
0-89

24

MAR 02 2018

DAS
0-89

24

PURCHASE ORDER
PO039131

E-MAILED
FEB 27 2018

PURCHASE ORDER

Items

Line Item	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M6061T6B1.000X02.000		6061-T6 Bar 1.00 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/2/18	24 ft	0 ft		\$5.88/ft	\$141.12
5	M6061T6B1.500X02.500		6061-T6 Bar 1.50 X 2.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/2/18	60 ft	0 ft		\$11.03/ft	\$661.80
6	M6061T6B2.250X2.250		6061-T6 Bar 2.250 X 2.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/8/18	12 ft	0 ft		\$17.86/ft	\$214.32
7	M6061T6B1.000X16.000		6061-T6 Bar 1.00 X 16.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/8/18	12 ft	0 ft		\$72.50/ft	\$870.00
8	M6061T6B0.750X06.000		6061T6 Bar .750 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/2/18	12 ft	0 ft		\$13.23/ft	\$158.76

Line Item Note MAT'L 1.000" X 18.000" ACCEPTABLE

DAS
11
9-89

17

MAR 02 2018

Line Item	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
9	M6061T6B1.250X02.000		6061T6 Bar 1.250 X 2.000 : MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR PER QA-A-225/8 OR AMS-QQ- 4117/4128/4115/4116 OR QA-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/2/18	12 ft	0 ft	12 ft	\$7.35/ft	\$88.20
10	M6061T6S.080		6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	3/2/18	96 sf	0 sf	96 sf	\$4.2334375/sf	\$406.41
11	M6061T6S.3125		6061-T6 .3125 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	3/2/18	48.648 sf	0 sf	49 sf	\$11.012169/sf	\$535.72
12	M304B0.750X1.500		304 Bar 0.750 X 1.500" : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	3/2/18	12 ft	0 ft	12 ft	\$12.78/ft	\$153.36

Grand Total: \$3,900.01

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents
A048 counterfeit parts avoidance, detection, mitigation and disposition program
A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.darttaerospace.com for further explanation.

Plex 2/26/18 2:08 PM dart.lavoie.chantal



thyssenkrupp

DELIVERY NOTE

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789206*
BOL. NO: 2405789206
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

**ATTN: CHANTAL/LINDA
** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT ****

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION
0010 ALREC76047	6061 T6511 Aluminum Extruded Rectangular
	0.50000 X 12.0000 X 144 Mill Length
	Nominal Chemistry/Act Physical
	Standard Packaging
	TAGNUM QTY UOMVEND VENDPO HLOT
	2001313800 2 PC SERVICE C 201800084

Total Gross Weight 181.000 lb

All items, not declared as partial delivery, are final quantities.
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789206*
BOL. NO: 2405789206
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.
*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance

thyssenkrupp Materials NA

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE

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DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7



DATE: 03/02/2018
DOC. NO: 2405789207*
BOL. NO: 2405789207
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM
P.COM

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ITEM DESCRIPTION

0010 ALREC00870

6061 T6511 Aluminum Extruded Rectangular
0.50000 (+-.009) X 5.0000 (+-.034) X 144 Mill Length
Nominal Chemistry/Act Physical

Standard Packaging

TAGNUM QTY UOMVEND

VENDPO

HLOT

2001313765 2 PC SERVICE C 5400383517 201801965

SAE AMS-QQ-A-200/8|1997;ROHS COMPLIANT;ASTM B 221|2014

Total Gross Weight

73.000 lb

All items, not declared as partial delivery, are final quantities.
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789207*
BOL. NO: 2405789207
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

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David Noordine - Director of Quality Assurance

DELIVERY NOTE

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DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789208*
BOL. NO: 2405789208
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM
P.COM

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** REFERENCED ON IT ****

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ITEM DESCRIPTION

0010 ALSQ00013
6061 T6511 Aluminum Extruded Square
1.00000 " (+-.012) X 144 Mill Length
Nominal Chemistry/Act Physical
Standard Packaging
TAGNUM QTY UOMVEND VENDPO HLOT
2001313766 2 PC SERVICE C 5400378112 201719989
SAE AMS-QQ-A-200/8|1997;ROHS COMPLIANT;ASTM B 221|2014

Total Gross Weight 31.000 lb

All items, not declared as partial delivery, are final quantities.
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID

DELIVERY NOTE

thyssenkrupp



DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789208*
BOL. NO: 2405789208
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125

Route: 303UA
CONTACT: Stan Ivers

TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

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David Noordine - Director of Quality Assurance

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DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789209*
BOL. NO: 2405789209
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM
P.COM

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**ATTN: CHANTAL/LINDA
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Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM DESCRIPTION
0010 ALREC00173

6061 T6511 Aluminum Extruded Rectangular
1.00000 (+-.012) X 2.0000 (+-.024) X 144 Mill Length
Nominal Chemistry/Act Physical
Standard Packaging
TAGNUM QTY UOMVEND VENDPO HLOT
2001313767 2 PC SERVICE C 5400381107 201801773
SAE AMS-QQ-A-200/8|1997;ROHS COMPLIANT;ASTM B 221|2014
Total Gross Weight 60.000 lb

All items, not declared as partial delivery, are final quantities.
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789209*
BOL. NO: 2405789209
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA

CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM
P.COM

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

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David Noordine - Director of Quality Assurance

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

thyssenkrupp Materials NA



thyssenkrupp

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7



DATE: 03/02/2018
DOC. NO: 2405789212*
BOL. NO: 2405789212
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM

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ATTN: CHANTAL/LINDA
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**** REFERENCED ON IT ****

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ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO
0010	ALRECC00274	1 PC	1008339685

6061 T6511 Aluminum Extruded Rectangular
0.75000 (+-.010) X 6.0000 (+-.044) X 144 Mill Length

Nominal Chemistry/Act Physical

Standard Packaging

TAGNUM	QTY	UOM	VEND	HLOT
2001313769	1	PC	KAISER BE	5400386392

SAE AMS-QQ-A-200/8|1997;ROHS COMPLIANT;ASTM B 221|2014

Total Gross Weight

67.000 lb

All items, not declared as partial delivery, are final quantities.
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789212
BOL. NO: 2405789212
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125

303UA

Stan Ivers

905-532-1350 ext 21350

905-738-9033 ext 9033

STAN.IVERS@THYSSENKRUPP

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CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

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David Noordine - Director of Quality Assurance



thyssenkrupp

DELIVERY NOTE

COPY



DATE: 03/01/2018

DOC. NO: 2405789213*

BOL. NO: 2405789213

ORDER NO: 1403544606

YOUR P/O: 39131

LOADING NO: 3510210926

CUSTOMER NO: 10058125

Route: 303UA

CONTACT: Stan Ivers

TEL: 905-532-1350 ext 21350

FAX: 905-738-9033 ext 9033

EMAIL: STAN.IVERS@THYSSENKRUPP

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

**** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER ** REFERENCED ON IT ****

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO.
0010	ALREC00726	1 PC	1008339687

6061 16511 Aluminum Extruded Rectangular
1.25000 (+-.008) X 2.0000 (+-.008) X 144 Mill Length
Nominal Chemistry/Act Physical

Standard Packaging

2001313770 1 PC SERVICE C 201800937

SAE AMS-QQ-A-200/811997:ROHS COMPLIANT:ASTM B 221|2014

Total Gross Weight

40.000 lb

All items, not declared as partial delivery, are final quantities.
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



thyssenkrupp

thyssenkrupp Materials NA 2821 Langstaff Road, Concord, ON L4K 5G6

DELIVERY NOTE COPY

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/01/2018

DOC. NO:

2405789213*

BOL. NO:

2405789213

ORDER NO:

1403544606

YOUR P/O:

39131

LOADING NO:

3510210926

CUSTOMER NO:

10058125

Route:

303UA

CONTACT:

Stan Ivers

TEL:

905-532-1350 ext 21350

FAX:

905-738-9033 ext 9033

EMAIL:

STAN.IVERS@THYSSENKRUPP

CERTIFICAT DE CONFORMITE/CERTIFICATE OF COMPLIANCE

"thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée. / thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.

*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance



thyssenkrupp

DELIVERY NOTE

COPY



DATE: 02/28/2018

DOC. NO: 2405789214*

BOL. NO: 2405789214

ORDER NO: 1403544606

YOUR P/O: 39131

LOADING NO: 3510210836

CUSTOMER NO: 10058125

Route: 303UA

CONTACT: Stan Ivers

TEL: 905-532-1350 ext 21350

FAX: 905-738-9033 ext 9033

EMAIL: STAN.IVERS@THYSSENKRUPP

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

**ATTN: CHANTAL/LINDA
** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT ****

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO.
0010	OFFERING .080X48X144	3 PC	1008338797

162.570 lb

6061 Aluminum 16 Sheet
0.08000 (+-.0035) X Width 48.0000 X Length 144

Nominal Chemistry/Act Physical

Standard Packaging

TAGNUM QTY UOM VENDOR HLOT PCS

2001313648 3 PC COPPER & 5400384115 34097/01 3

SAE AMS 4027/N:ROHS COMPLIANT:ASTM B209 2014

Total Gross Weight

258.570 lb

All items, not declared as partial delivery, are final quantities.
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



thyssenkrupp

thyssenkrupp Materials NA 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE

COPY

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 02/28/2018

DOC. NO:

2405789214*

BOL. NO:

2405789214

ORDER NO:

1403544606

YOUR P/O:

39131

LOADING NO:

3510210836

CUSTOMER NO:

10058125

Route:

303UA

CONTACT:

Stan Ivers

TEL:

905-532-1350 ext 21350

FAX:

905-738-9033 ext 9033

EMAIL:

STAN.IVERS@THYSSENKRUPP

CERTIFICAT DE CONFORMITE/CERTIFICATE OF COMPLIANCE

"thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée. / thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.
*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance

DELIVERY NOTE

thyssenkrupp



①
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789215
BOL. NO: 2405789215
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP
P.COM

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

**** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER ****

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION
0010	OFFERING .3125X48.5X144.5

ALFLR74857	6061 Aluminum T651 Sheet	0.31200 X Width 48.5000 X Length 144.5000	Actual Chemistry/Act. Physical	Standard Packaging	TAGNUM	QTY	UOMVEND	VENDPO	HLOT	PC	CONSTELLI 0000282714 X51665	2001313673 1
1	221 lb	1 PC	1008338932									

Total Gross Weight 369.000 lb

All items, not declared as partial delivery, are final quantities. Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/02/2018
DOC. NO: 2405789215*
BOL. NO: 2405789215
ORDER NO: 1403544606
YOUR P/O: 39131
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.
*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H60.500X12.000 DATE: MAR 02 2018
 PO / BATCH NO.: 039131/5047293

MATERIAL CERT REC'D: YES QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24' QUANTITY REJECTED: 0
 THICKNESS ORDERED: 0.500 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.	HRC	HRB	DUR A	DUR D	WEBSTER
RECORD RESULTS BELOW					
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

Testers located in the Quality Office

QC 18 INSPECTION
 ENGINEERING SIGNOFF (if required)
 INSPECTED BY: DAS
 DATE: MAR 02 2018
 SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T65107/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-03-03
MAD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV.	DESCRIPTION	BY	DATE
DRAWN	DS		
CHECKED	AS		
MFG. APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B SHEET 1 OF 1 SCALE NTS	
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Service Center Metals

5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	941058	ITEM	2
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BILL TO ThyssenKrupp Materials NA	MANIFEST NUMBER 355888	DIE NUMBER PL0735	DATE OF SHIPMENT 1/22/2018	CERTIFICATION ASTM-B221-14 StencilCont
SHIP TO ThyssenKrupp Materials NA-Concord, ON	CUSTOMER PO 5400383032	ALLOY/TEMPER 6061-T6511	SALESPERSON D. Schroeder (Canada)	SPECIFICATION AMS-QQA-200/8 Rev-A
Quantity Certified 2,201 lbs	CUSTOMER PART NUMBER ALREC76047	DESCRIPTION PL .500x12.000		RoHS 2011/65/EU Compliant

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

This product is RoHS-2, REACH, and DFARS compliant.

SCM is ISO 9001-2015 certified

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
			min	max	min	max	min	max
4	201718549	11/13/17	43.50	45.20	40.50	42.60	11.60	19.00
1	201800084	1/10/18	44.30	44.30	41.80	41.80	16.40	16.40

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Melt Source:
											Each	Total	
002J180103L	201800084	6061	0.65	0.26	0.22	0.06	0.89	0.06	0.03	0.02	0.05	0.15	United States of America
002K171107J	201718549	6061	0.61	0.23	0.19	0.06	0.87	0.06	0.02	0.02	0.05	0.15	United States of America
002K171108B	201718549	6061	0.62	0.24	0.20	0.06	0.90	0.07	0.02	0.02	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 1/22/2018

Rev 7/20/17

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____	DATE: <u>9-89 MAR 02 2018</u>

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

DESCRIPTION	Check (Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE	<input checked="" type="checkbox"/>	
ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN	<input checked="" type="checkbox"/>	
EXTRUSION REPORT	<input checked="" type="checkbox"/>	

MATERIAL CERT REC'D:	<u>YES</u>	THICKNESS ORDERED:	<u>0.500</u>
QUANTITY RECEIVED:	<u>24'</u>	THICKNESS RECEIVED:	<u>0.500</u>
QUANTITY INSPECTED:	<u>24'</u>	SHEET SIZE ORDERED:	<u>N/A</u>
QUANTITY REJECTED:	<u>0</u>	SHEET SIZE RECEIVED:	<u>N/A</u>

MATERIAL: <u>160616B0.500X05.000</u>	DATE: <u>MAR 02 2018</u>
PO / BATCH NO.: <u>039131/5047294</u>	

MATERIAL RECEIPT INSPECTION FORM

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.		BY	DATE
DESIGN	DS	DESCRIPTION	
DRAWN	DS	DART AEROSPACE LTD	
CHECKED	DS	DRAWING NO.	
MFG. APPR.	DS	M6061T6B	
APPROVED	DS	TITLE	
DE APPR.	DS	6061-T6 BAR	
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD.	
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RELEASED
2009-09-03
JMD



Service Center Metals

5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	ITEM
941295	7

BILL TO
ThyssenKrupp Materials NA
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 2,647 lbs 75 pcs

MANIFEST NUMBER 357463
CUSTOMER PO 5400383505
CUSTOMER PART NUMBER ALREC00870

DIE NUMBER RB0101
ALLOY / TEMPER 6061-T6511
DESCRIPTION SCRB .500x5.000

DATE OF SHIPMENT 2/7/2018
SALESPERSON D. Schroeder (Canada)
CERTIFICATION ASTM-B221-14 StencilCont
SPECIFICATION AMS-QQA-200/8 Rev-A
SPECIFICATION RoHS 2011/65/EU Compliant

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCM is ISO 9001-2015 certified

This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
3	201801965	2/6/18	min 39.40 max 44.50	min 36.90 max 40.60	min 17.80 max 20.40

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Each	Total	Others	Melt Source:
002K180128L	201801965	6061	0.62	0.28	0.19	0.08	0.89	0.08	0.03	0.03	97.81	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

Print Date: 2/7/2018

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 7/20/17

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION	INSPECTED BY: DAS	DATE: 9-89 MAR 02 2018
ENGINEERING SIGNOFF (if required)	SIGNED OFF BY:	DATE:

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	
CORROSION	<input checked="" type="checkbox"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	

Heat # 201719989
Asxm 8821

MATERIAL CERT REC'D:	4.5	THICKNESS ORDERED:	1.000
QUANTITY RECEIVED:	24	THICKNESS RECEIVED:	1.000
QUANTITY INSPECTED:	24	SHEET SIZE ORDERED:	N/A
QUANTITY REJECTED:	0	SHEET SIZE RECEIVED:	N/A

MATERIAL: **W601661.000X1.000** DATE: **MAR 02 2019**

PO / BATCH NO.: **09131/504735**

MATERIAL RECEIPT INSPECTION FORM

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T652 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ~~ASTM B211~~ *cy*

PART NUMBER:

M6061T6B1 T.TTT X WW.WWW

THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.08.08
DESIGN	DS	BY	DATE
DRAWN	DS	DART AEROSPACE LTD	
CHECKED	DS	HAWKESBURY, ONTARIO, CANADA	
MFG. APPR.	DS	DRAWING NO.	REV. B
APPROVED	DS	M6061T6B	SHEET 1 OF 1
DE APPR.	DS	TITLE	SCALE
DATE	09.07.13	6061-T6 BAR	NTS

RELEASED
2009-09-03
MSD

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CANADIAN GOVERNMENT OR ANY OF ITS AGENCIES



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	OUR ORDER NUMBER	ITEM
Thyssenkrupp Materials NA	353651	MSQ1825	12/28/2017	938141	3
SHIP TO	CUSTOMER PO	ALLOY / TEMPER	SALESPERSON	CERTIFICATION	
ThyssenKrupp Materials NA-Concord, ON	5400378112	6061-T6511	D. Schroeder (Canada)	ASTM-B221-14 StencilCont	
Quantity Certified	CUSTOMER PART NUMBER	DESCRIPTION		SPECIFICATION	
2,056 lbs 144 pcs	ALSQ00013	MSQ 1.000 + 012/-0		AMS-QQA-200/8 Rev-A	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

This product is RoHS-2, REACH, and DFARS compliant.

SCM is ISO 9001-2015 certified

Mechanical Properties

Tests	Lot No.	Test Date		Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
		min	max	min	max	min	max	min	max
15	201719989	45.90	53.00	42.50	49.90	11.60	18.80		

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Melt Source:
											Each	Total	
001E171125B	201719989	6061	0.75	0.37	0.31	0.11	0.87	0.11	0.10	0.03	0.05	0.15	United States of America
001E171127K	201719989	6061	0.72	0.37	0.31	0.09	0.88	0.11	0.08	0.03	0.05	0.15	United States of America
001E171129B	201719989	6061	0.74	0.37	0.32	0.11	0.89	0.10	0.06	0.03	0.05	0.15	United States of America
001J171103B	201719989	6061	0.75	0.38	0.33	0.10	0.92	0.10	0.06	0.03	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 12/28/2017

Rev 7/2017

From: TK Materials CA, Ltd.

Del.: 2405789208

Cstor 39131

Date 02/28/2018

Wgt.: 28 LB

CstAr

Cust. PART AEROSPACE LTD

Handwritten signature

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 76617681000 X 02.000 DATE: MAR 02 2018
 PO / BATCH NO.: 039131/5047236

MATERIAL CERT REC'D: YES QUANTITY RECEIVED: 24
 QUANTITY INSPECTED: 24 QUANTITY REJECTED: 0
 THICKNESS ORDERED: 1.000 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	(Y)	
CORRECT FINISH	(Y)	
CORROSION	(Y)	
CORRECT GRAIN DIRECTION	(Y)	
CORRECT MATERIAL PER M-DRAWING	(Y)	
CORRECT THICKNESS	(Y)	
PHOTO REQUIRED	(N)	
CORRECT REF # TO LINK CERT	(Y)	
CORRECT MATERIAL IDENTIFICATION	(Y)	
CORRECT M# ON THE MATERIAL	(Y)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	(Y)	
DOES THIS REQUIRE AN EXTRUSION REPORT	(Y)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.	HRC	HRB	DUR A	DUR D	WEBSTER
RECORD RESULTS BELOW					
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

Testers located in the Quality Office

QC 18 INSPECTION
 ENGINEERING SIGNOFF (if required)
 INSPECTED BY: DAS
 SIGNED OFF BY: _____
 DATE: MAR 02 2018

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B21

PART NUMBER:

M6061T6B | T.TTT | X | WWW.WWW/

THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

B	REMOVE QQ-A-250/1 (OPTION, REFORMAT NOTES, ADD ASTM B211/B21 (Zn D1-1))	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD
HAMKESBURY, ONTARIO, CANADA

DRAWING NO.
M6061T6B

TITLE
6061-T6 BAR

REV. B
SHEET 1 OF 1

SCALE
NTS

RELEASED
2009-05-03

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MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



BILL TO ThyssenKrupp Materials NA		MANIFEST NUMBER 357338	DIE NUMBER MRB0477	DATE OF SHIPMENT 2/6/2018	OUR ORDER NUMBER 942151	ITEM 1
SHIP TO ThyssenKrupp Materials NA-Concord, ON		CUSTOMER PO 5400381107	ALLOY/TEMPER 6061-T6511	SALESPERSON D. Schroeder (Canada)	CERTIFICATION ASTM-B221-14 StencilCont	
Quantity Certified 3,084 lbs 108 pcs		CUSTOMER PART NUMBER ALREC00173	DESCRIPTION MQRB 1.000 x 2.000	SPECIFICATION AMS-QQA-200/8 Rev-A		
				SPECIFICATION RoHS 2011/65/EU Compliant		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

This product is RoHS-2, REACH, and DFARS compliant.

SCM is ISO 9001-2015 certified

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
10	201801773	2/4/18	min 47.80 max 51.50	min 44.10 max 48.50	min 15.90 max 19.40

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Others	Each	Total	Melt Source:
001E180126C	201801773	6061	0.77	0.38	0.32	0.10	0.92	0.10	0.07	0.03	97.31		0.05	0.15	United States of America
001J180130A	201801773	6061	0.75	0.38	0.32	0.10	0.90	0.11	0.09	0.03	97.32		0.05	0.15	United States of America
01151802	201801773	6061	0.73	0.40	0.31	0.10	0.90	0.08	0.08	0.02	97.38		0.05	0.15	United States of America
01221802	201801773	6061	0.74	0.38	0.30	0.10	0.89	0.09	0.09	0.03	97.38		0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 2/6/2018

Rev 7/2017

From: TK Materials CA, Ltd.

Cust. DART AEROSPACE LTD

CstAr

Wgt.: 57 LB

CstOr 39131

Date 02/28/2018

Del.: 2405789209

Handwritten signature

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION	INSPECTED BY: <u>9-89 11 DAS</u>	DATE: <u>MAR 02 2018</u>
ENGINEERING SIGNOFF (if required)	SIGNED OFF BY:	DATE:

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	As per 6821
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	Heat # 200106228
CORRECT # ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

MATERIAL CERT REC'D:	<u>yes</u>	THICKNESS ORDERED:	<u>0.750</u>
QUANTITY RECEIVED:	<u>12'</u>	THICKNESS RECEIVED:	<u>0.750</u>
QUANTITY INSPECTED:	<u>12'</u>	SHEET SIZE ORDERED:	<u>11/4</u>
QUANTITY REJECTED:	<u>0</u>	SHEET SIZE RECEIVED:	<u>11/4</u>

MATERIAL: M6061T6 B0.750x6.000 PO / BATCH NO.: 039131/5047297 DATE: MAR 02 2018

MATERIAL RECEIPT INSPECTION FORM

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-05-03
MAD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	DS		
MFG. APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		
		SCALE	NTS
		SHEET 1 OF 1	
		REV. B	
		DART AEROSPACE LTD	
		HAWKESBURY, ONTARIO, CANADA	
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CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: 5400386392-1		CUSTOMER PART NUMBER: ALREC00274		PRODUCT DESCRIPTION: .750 X 6.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 6047474	LINE ITEM: 001	SHIP DATE: 02/09/2018	KAISER LOT NUMBER: Z00106228	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 5588.000 LB	QUANTITY: 88.000 PCS	B/L NUMBER: 621766	DIA/DAF/TH(KNS):	WIDTH:	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA					
SOLD TO: THYSSENKRUPP MATERIALS NA PO BOX 5116 SOUTHFIELD, MI 48086-5116 USA					

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00106228	0001	0001	43.5	39.2	18.0	RE 94	N/A	N/A
Z00106228	0001	0002	44.0	39.4	17.7	RE 90	N/A	N/A
Z00106228	0001	0003	43.7	39.3	17.1	RE 92	N/A	N/A
Z00106228	0001	0004	44.3	39.8	16.4	RE 92	N/A	N/A
Z00106228	0002	0001	43.4	39.5	17.9	RE 91	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	SI	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108158	.62	.26	.24	.08	.85	.06	.04	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Almee L. Macnowski, Quality & Technology Manager

From: TK Materials CA, Ltd.
Cust. DART AEROSPACE LTD

Del.: 2405789212
Cstor 39131

Date 02/28/2018

Wgt.: 64 LB

Plant Serial: 00321057
Kaiser Order Number: 6047474
Line Item: 001
Page 1 of 1

MATERIAL: M60617681-250X02.000 PO / BATCH NO.: 039151/5047297 DATE: MAR 02 2018

THICKNESS ORDERED:	1.250
THICKNESS RECEIVED:	1.250
SHEET SIZE ORDERED:	2 1/4
SHEET SIZE RECEIVED:	2 1/4

QUANTITY RECEIVED:	121
QUANTITY INSPECTED:	121
QUANTITY REJECTED:	0
MATERIAL CERT REC'D:	✓ 25

NCR (Check Y/N)	COMMENTS	DESCRIPTION	
Y			SURFACE DAMAGE
(Y)			CORRECT FINISH
(N)			CORROSION
(Y)			CORRECT GRAIN DIRECTION
(Y)			CORRECT MATERIAL PER M-DRAWING
(Y)	5/17/18 B&M		CORRECT THICKNESS
(N)			PHOTO REQUIRED
(Y)			CORRECT REF # TO LINK CERT
(Y)	Heat # 201800937		CORRECT MATERIAL IDENTIFICATION
(Y)			CORRECT M# ON THE MATERIAL
(Y)			DOES THIS MATERIAL REQUIRE
(Y)			ENGINEERING SIGN OFF
(N)			DOES THIS REQUIRE AN
(N)			EXTRUSION REPORT

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				
Testers located in the Quality Office				

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>74</u> DATE: <u>MAR 07 2019</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
N 2009-05-03
MAD

REV	DESCRIPTION	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
DESIGN	DS	BY	DATE
DRAWN	DS	DART AEROSPACE LTD	
CHECKED	ASS	DRAWING NO. HAWKESBURY, ONTARIO, CANADA	
MFG. APPR.	M6061T6B	REV. B	
APPROVED	TITLE	SHEET 1 OF 1	
DE APPR.	6061-T6 BAR	SCALE	
DATE	09.07.13	NTS	

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Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	ITEM
941295	1

BILL TO

ThyssenKrupp Materials NA
SHIP TO

MANIFEST NUMBER
356210
CUSTOMER PO
5400383505

ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 5,988 lbs 168 pcs

CUSTOMER PART NUMBER
ALREC00726

DIE NUMBER
MRB1792

DATE OF SHIPMENT
1/25/2018

ALLOY / TEMPER
6061-T6511

SALESPERSON
D. Schroeder (Canada)

DESCRIPTION
MGRB 1.250X2.000

CERTIFICATION
ASTM-B221-14 StencilCont
SPECIFICATION
AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCM is ISO 9001-2015 certified

This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests Lot No.

5 201800937

Test Date

Ultimate Tensile
Strength (KSI)

Yield Strength
(KSI)

Percent
Elongation

1/22/18

min 50.30 max 52.60

min 47.10 max 49.20

min 15.80 max 18.90

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others Total	Melt Source
001E180112A	201800937	6061	0.75	0.38	0.31	0.10	0.91	0.10	0.06	0.03	97.37	0.05	0.15	United States of America
001E180119B	201800937	6061	0.76	0.38	0.33	0.11	0.92	0.10	0.09	0.03	97.28	0.05	0.15	United States of America
001J180116B	201800937	6061	0.72	0.39	0.33	0.10	0.88	0.10	0.08	0.03	97.37	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 1/25/2018

Rev 7/2017

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION	
INSPECTED BY: <u>11 DAS</u>	DATE: <u>MAR 02 2018</u>
SIGNED OFF BY:	DATE:
ENGINEERING SIGNOFF (if required)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	(N)	
CORRECT FINISH	(Y)	
CORROSION	(N)	
CORRECT GRAIN DIRECTION	(Y)	
CORRECT MATERIAL PER M-DRAWING	(Y)	AMS-QQ-A-250/11
CORRECT THICKNESS	(Y)	
PHOTO REQUIRED	(N)	
CORRECT REF # TO LINK CERT	(Y)	Link # 34092/1
CORRECT MATERIAL IDENTIFICATION	(Y)	
CORRECT # ON THE MATERIAL	(Y)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	(N)	

THICKNESS ORDERED: <u>080</u>	THICKNESS RECEIVED: <u>080</u>
SHEET SIZE ORDERED: <u>4x12</u>	SHEET SIZE RECEIVED: <u>4x12</u>
SHEET SIZE RECEIVED: <u>4x12</u>	

MATERIAL CERT REC'D: <u>Yes</u>	QUANTITY RECEIVED: <u>144#</u>
QUANTITY INSPECTED: <u>144#</u>	QUANTITY REJECTED: <u>0</u>

PO / BATCH NO.: 039131/5047399

MATERIAL: M6061H65.080 DATE: MAR 02 2018

MATERIAL RECEIPT INSPECTION FORM

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET
SPECIFICATION *del* QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S | XXX
THK

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)
EG. 0.063" THICK SHEET = M6061T6S.063
PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MP

B	REFORMAT DWG. ADD B209 SPEC (ZN D6-1).	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DRAWING NO. DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
M6061T6S		SHEET 1 OF 1	
TITLE 6061-T6 SHEET SPEC		SCALE NTS	
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Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 89055159
Rev.: 0
03 / 4
Seite / page: 1 von / of 2
Datum / date: 2017 06 28

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Auftraggeber / customer: ThyssenKrupp Materials NA Copper and Brass Sales Division P.O. BOX 5116 SOUTHFIELD MI 48086 USA	
Warenempfänger / consignee: CBS Atlanta 1500 Cherokee Pkwy ACWORTH GA 30102-1603 USA	
Bestell Nr. / order no.: 5400342513-R01	Datum / date: 2017 03 02
Auftragsbest. Nr. / order confirm no.: 130077	Datum / date: 2017 04 13
Lieferschein Nr. / delivery note: 89055159	Datum / date: 2017 07 31

Produkt / product Form / form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim / dim.: [inch]: 0,080x48,00x144,00 Kundenartikel Nr. / cust. article no.: ALFLR01650	
Bedingungen / terms Technische Lieferbedingungen / techn. spec.: AMS-QQ-A-250/11, 08.1997 ASTM B 209 - 14 AMS 4027N, 07.2008 ASME SB-209, 2011a Sondervorschrift / special terms:	

AB-Pos.	ord.-item.	BNr/Los	Teillos	Guss Nr.	Werkstoff	Kollo	Gewicht netto	Stk.
05		34097/01	00	01/0083429/7	6061	1300770006	4056,437 lbs	75
		Lot/No.	Part	cast no.	material	packno.	weight net	pcs.

Chemische Zusammensetzung [%] Gewichtssanteile) / Chemical composition [%] weight proportion (OES)												
(Guss Nr. / cast no. material)												
6061												
actual												
spec. min.												
spec. max.												
01/0083429/7												
Si												
Fe												
Cu												
Mn												
Mg												
Cr												
Zn												
Ti												
Others												
Total												

Zugprüfung LT / tensile test LT												
BNr/Los	Zustand	Richtung	Tests	UTS	YS	Az"	[%]	[ksi]	[ksi]	spec. min.	spec. max.	to
34097/01	T6	LT	2	47,4	40,0	15	-	-	-	-	-	16
34097/01	T6	LT	2	47,4	40,0	15	-	-	-	-	-	16

Sonstige Prüfungen / other tests												
Biegeversuch: OK / Transverse bend test: OK.												
Maßkontrolle: OK / Dimensional Check: OK.												
Oberfläche: OK / Surface inspection: OK.												



Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 89055159
Rev.: 0
Seite / page: 2 von / of 2
Datum / date: 2017 06 28

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Bemerkungen / notes
Gegossen und gefertigt in Österreich / Country of melt and manufactured in Austria

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.
We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werksachverständiger / factory specialist	E-Mail / e-mail
Josef Klampfer	josef.klampfer@amag.at

Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.
Herstellernand: Österreich / goods origin: The goods are of Austrian origin.

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich - www.amag.at
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria - www.amag.at

From: ThyssenKrupp Materials NA

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: DAS	SIGNED OFF BY:	DATE: MAR 02 2018

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL PER M-DRAWING	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT # ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

MATERIAL CERT REC'D: Yes	QUANTITY RECEIVED: 4812	THICKNESS ORDERED: 0.3125
QUANTITY INSPECTED: 4812	QUANTITY REJECTED: 0	THICKNESS RECEIVED: 0.3125
		SHEET SIZE ORDERED: 4x12
		SHEET SIZE RECEIVED: 4x12

MATERIAL: M6061H5.3125	DATE: MAR 02 2018
PO / BATCH NO: 039131/5042300	

MATERIAL RECEIPT INSPECTION FORM

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S | XXX
THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S 063

PREFERRED SIZE: XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MP

B	REFORMAT DNG ADD B209 SPEC (2N 08-1).	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR			
APPROVED			
DE APPR			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B SHEET 1 OF 1 SCALE NTS	
DRAWING NO. M6061T6S			
TITLE 6061-T6 SHEET SPEC			
COPYRIGHT © 2001 BY DART AEROSPACE LTD NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

ALUMINIUM PLATE IN 6061 T651 MILL FINISH
According to AMS4027N

Rolling lot	X51665	Production N	6290767	Weight	6499.12 Lbs	Quantity	29	Dimensions	0.312" x 48.50" x 144.50"
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The indicated values are in ksi for UTS and YS and % for A

Measured values

[illegible]

The indicated values are in % by weight

Min	0.40	0.15	0.40	0.15	0.8	0.04	0.05	0.25	0.15	
Max	0.8	0.7	0.15	0.40	1.2	0.35	0.05	0.25	0.15	
Casting No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	

Analysis results with test method based on EN14726, ASTM E1251 and ASTM E1621

71491381	0.68	0.4	0.27	0.01	1.1	0.20	<0.01	0.07	0.01	
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Other elements are compliant to the requirement: Each $\leq 0.05\%$ Total $\leq 0.15\%$

Remark

Product conforms to AMS4027N.

ASTM B209-14, ASTM B209M-14 and former AMS-QQ-A-250/11 rev.A

Casting and heat treatment of the referenced lot has been performed by Constellium Valais SA, Switzerland

A. Thure (WSV-4)

Quality Plates

Valid without signature

Definition of abbreviations on demand

Management System certified
ISO 9001 / ISO 14001 / OHSAS 18001